AMENDMENTS TO THE CLAIMS:

Please amend the Claims as follows:

1 - 5. (Cancelled)

6. (Previously Presented) A production method for a purification catalyst for

exhaust gas, wherein Pd and PdO are supported on an Al oxide and the Al oxide is (Ln:

rare-earth metal) generated as a single phase and trigonal or rhombohedral, the method

comprising:

preparing at least one kind of compound selected from a group of compounds of

carboxylic acid having a hydroxyl group or a mercapto group and having a carbon

number of 2 to 20, dicarboxylic acid having a carbon number of 2 or 3, and

monocarboxylic acid having a carbon number of 1 to 20; and

adding at least one compound selected from the group to an aqueous nitrate

solution including Ln and Al component.

7. (Previously Presented) The production method for a purification catalyst for

exhaust gas according to claim 6, the method comprising:

evaporating the agueous nitrate solution completely to produce a carboxylic acid

complex polymer; and

heating the carboxylic acid complex polymer.

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8. (Original) The production method for a purification catalyst for exhaust gas according to claim 7, wherein a heating temperature in the heating of the carboxylic acid complex polymer is not more than 1000°C.

9. (Cancelled)

10. (Cancel)

11. (Previously Presented) A purification catalyst for exhaust gas, according to claim 12, wherein the catalyst is produced by adding at least one kind of compound selected from the group of compounds of carboxylic acid having a hydroxyl group or a mercapto group and having a carbon number of 2 to 20, dicarboxylic acid having a carbon number of 2 or 3, and monocarboxylic acid having a carbon number of 1 to 20 to aqueous nitrate solution including Ln and Al.

12. (Currently Amended) A purification catalyst for exhaust gas comprising an Al oxide supporting Pd and PdO aluminum oxide, where the AlO is (Ln: rare-earth) generated as a single phase and trigonal or rhombohedral.

13. (Previously Presented) The purification catalyst for exhaust gas according to claim 11, wherein the catalyst is produced by evaporating the aqueous nitrate solution

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complex polymer.

14. (Previously Presented) The purification catalyst for exhaust gas according to

claim 13, wherein Pd is supported on LnAlO₃ in which Ln is a rare-earth metal, and an

oxidation state of Pd in a surface supporting Pd is a state of Pd²⁺.

15. (Previously Presented) A Purification catalyst equipment for exhaust gas,

comprising the purification catalyst for exhaust gas according to claim 11 or 12.

16. (Previously Presented) The purification catalyst for exhaust gas according to

claim 12, wherein the purification catalyst is a powder having a surface-to-weight ratio of

8 m² or more.

17. (Previously Presented) The purification catalyst for exhaust gas according to

claim 13, wherein the carboxylic acid is malic acid.